

1 . TRANSMITTED DATA

1-1 TRANSMITTED DATA LIST [H]:Hex, [D]:Decimal

Status [Hex]	Second [H] [D]	Third [H] [D]	Description (Transmitted by)	ENA
CHANNEL MESSAGES				
8n	kk (kk)	40 (64)	Note Off (Key Off!)	*1 A
9n	kk (kk)	vv (vv)	Note On vv=01~ 127 (Key On!)	*1 A
An	kk (kk)	vv (vv)	Poly Key Pressure (Assignable Controller)	C
Bn	00 (00)	mm (mm)	Bank Select (MSB) (Perf Change)	*2 C
Bn	07 (07)	vv (vv)	Volume (Perf Change)	*2 C
Bn	0A (10)	vv (vv)	Panpot (Perf Change)	*2 C
Bn	20 (32)	bb (bb)	Bank Select(LSB) (Perf Change)	*2 C
Bn	40 (64)	vv (vv)	Hold 1 (Damper Pedal,Perf Change)	C
Bn	42 (66)	00 (00)	Sostenuto Off (Perf,Mode Change)	A
Bn	cc (cc)	vv (vv)	Control Data cc=00~ 127 (Assignable Controller)	C
Cn	pp (pp)	-- --	Program Change (Prog/Perf Change)	*2,3 C
Dn	vv (vv)	-- --	Channel Pressure (After Touch, Asgn Controller)	T
En	bb (bb)	bb (bb)	Bender Change (Assignable Controller)	C
SYSTEM COMMON MESSAGES				
F2	ss	tt	Song Position Pointer (Assignable Controller)	*4 A
F3	ss	--	Song Select (Assignable Controller)	A
SYSTEM REALTIME MESSAGES				
F8	--	--	Timing Clock (Assignable Controller)	S
FA	--	--	Start (Assignable Controller)	S
FC	--	--	Stop (Assignable Controller)	S
FE	--	--	Active Sensing (Everytime)	A

n : MIDI Channel (0~ 15) When in PROGRAM Mode, Global Channel.
When in PERFORMANCE Mode, each timbre's channel.

vv: Value

ENA = A : Always Enabled

C : Enabled when each timbre's each filter is set to ENA.

T : Enabled when After Touch filter in GLOBAL and each timbre is set to ENA.

S : Enabled when one timbre's TYPE is set to Start/Stop,Clock,Start/Stop/Clock.

*1 : kk=09~ 120 (88Keys+Transpose)

*2 : When changed the Performance No., transmits each timbre's [Bank Select], [Program Change], [Volume],[Panpot]. (Doesn't send Performance's No.)

*3 : Program MIDI Out (Hex)
BankA 1~ 16 : pp = 00~ 0F
BankB 1~ 16 : 10~ 1F
BankC 1~ 16 : 20~ 2F
BankD 1~ 16 : 30~ 3F

Each timbre's [Bank Select],[Program Change] are selectable in all range.

*4 : ss : Pointer(LSB)
tt : Pointer(MSB)
For Example, if Time Signature was 4/4 or 8/8, tt,ss=00,10 means 1Measure

1-2 SYSTEM EXCLUSIVE

* UNIVERSAL SYSTEM EXCLUSIVE MESSAGE (NON REALTIME)

DEVICE INQUIRY REPLY (Transmits when received a INQUIRY MESSAGE REQUEST)
[F0,7E,0g,06,02,42,4A,00,07,00,nn,00,vv,00,F7] 3rd byte g : Global Channel
6th byte 42 : KORG ID
7th byte 4A : SG series ID
9th byte 07 : SG proX (0C:SG-Rack)
11th byte nn : System No. (01~)
13th byte vv : System Version (02~)

* UNIVERSAL SYSTEM EXCLUSIVE MESSAGES (REALTIME)

MASTER VOLUME (Transmits when Assignable Controller is operated)
[F0,7F,nn,04,01,vv,mm,F7] 3rd byte nn : Channel (=00~ 0F,7F(OMNI))
6th byte vv : Value(LSB)
7th byte mm : Value(MSB)

MASTER BALANCE (Transmits when Assignable Controller is operated)
[F0,7F,nn,04,02,vv,mm,F7] 3rd byte nn : Channel (=00~ 0F,7F(OMNI))
6th byte vv : Value(LSB)
7th byte mm : Value(MSB)
mm,vv : 00,00~ 40,00~ 7F,7F : L~ Center~ R

* KORG SYSTEM EXCLUSIVE

See "3.MIDI SYSTEM EXCLUSIVE FORMAT"

There are 11 transmit Messages, and their format is as below.

[F0,42,3g,4A,[Func],[Data],.....,F7] 3rd byte g : Global Channel

5th byte [Func]: Function Code (See below Table)

Transmits Message List

Func	Description	R	D	E
40	PROGRAM PARAMETER(Edit Buffer) DUMP	0		
4C	ALL PROGRAM PARAMETER DUMP	0	0	
49	PERFORMANCE PARAMETER(Edit Buffer) DUMP	0		
4D	ALL PERFORMANCE PARAMETER DUMP	0	0	
51	GLOBAL DATA DUMP	0	0	
42	MODE DATA	0		
26	RECEIVED MESSAGE FORMAT ERROR	0		0
23	DATA LOAD COMPLETED (ACK)			0
24	DATA LOAD ERROR (NAK)			0
21	WRITE COMPLETED			0
22	WRITE ERROR			0

"Func" is Function Code (5th byte of Exclusive message).

Transmitted when

R : Request Message has been received.

D : Data dump has been started by SW (Doesn't respond to Exclusive ENA,DIS).

E : EX.Message has been received.

2. RECOGNIZED RECEIVE DATA

2-1 RECOGNIZED RECEIVE DATA LIST [H]:Hex, [D]:Decimal

Status [Hex]	Second [H] [D]	Third [H] [D]	Description	ENA
CHANNEL MESSAGES				
8g	kk (kk)	xx (xx)	Note Off	A
9g	kk (kk)	00 (00)	Note Off	A
9g	kk (kk)	vv (vv)	Note On vv=1~ 127	A
Bg	01 (01)	vv (vv)	Modulation 1 Depth (for LFO Depth)	E
Bg	06 (06)	vv (vv)	Data Entry (MSB) (for RPC Edit)	*1 A
Bg	07 (07)	vv (vv)	Volume	F
Bg	0A (10)	vv (vv)	Panpot	I
Bg	0B (11)	vv (vv)	Expression	G
Bg	0C (12)	vv (vv)	Effect Control 1 (as FX Dyn Mod Src = Ctrl #12)	A
Bg	26 (38)	vv (vv)	Data Entry (LSB) (for RPC Edit)	*1 A
Bg	40 (64)	vv (vv)	Hold 1	*2 C
Bg	42 (66)	~3F/40~ (~63/64~)	Sostenuto SW (as Sostenuto OFF/ON)	C
Bg	49 (73)	vv (vv)	Attack Time	*3 J
Bg	4A (74)	vv (vv)	Brightness	*3 J
Bg	4B (75)	vv (vv)	Decay Time	*3 J
Bg	5B (91)	vv (vv)	Effect1 Level (as Effect2 Level)	A
Bg	5C (92)	00/01~ (00/01~)	Effect2 Level (as Effect2 OFF/ON)	A
Bg	5D (93)	vv (vv)	Effect3 Level (as Effect1 Level)	A
Bg	5E (94)	00/01~ (00/01~)	Effect4 Level (as Effect1 OFF/ON)	A
Bg	60 (96)	00 (00)	DATA Increment (for RPC Edit)	*1 A
Bg	61 (97)	00 (00)	DATA Decrement (for RPC Edit)	*1 A
Bg	64(100)	01 (01)	RPN Parameter No.(LSB)	*1 A
Bg	65(101)	00 (00)	RPN Parameter No.(MSB)	*1 A
Bg	78(120)	00 (00)	All Sound Off	A
Bg	79(121)	00 (00)	Reset All Controllers	A
Bg	7A(122)	00/7F (00/127)	Local Control Off/On	A
Bg	7B(123)	00 (00)	All Notes Off	A
Bg	7C(124)	00 (00)	Omni mode Off (as All Notes Off)	A
Bg	7D(125)	00 (00)	Omni mode On (as All Notes Off)	A
Bg	7E(126)	0~10 (0~16)	Mono mode On (as All Notes Off)	A
Bg	7F(127)	00 (00)	Poly mode On (as All Notes Off)	A
Cg	pp (pp)	-- --	Program Change	*4 A
Dg	vv (vv)	-- --	Channel Pressure (as After Touch)	H
Eg	bb (bb)	bb (bb)	Bender Change	D
SYSTEM REALTIME MESSAGE				
FE	--	--	Active Sensing (MIDI Connect check)	A

g : Global Channel No. (0~ 15)

x : Random

ENA = A : Always Enabled

C : Enabled when each timbre's "Damp/Sost" filter is set to ENA.

D : Enabled when each timbre's "Pitch Bend" filter is set to ENA.

E : Enabled when each timbre's "Mod Wheel" filter is set to ENA.

F : Enabled when each timbre's "Volume" filter is set to ENA.

G : Enabled when each timbre's "Expression" filter is set to ENA.

H : Enabled when each timbre's "AfterTouch" filter is set to ENA.

I : Enabled when each timbre's "Panpot" filter is set to ENA.

J : Enabled when each timbre's "Tone Chara" filter is set to ENA.

*1 : For Master Tune (RPN=00,01) edit.

*2 : vv = 00 : OFF --+

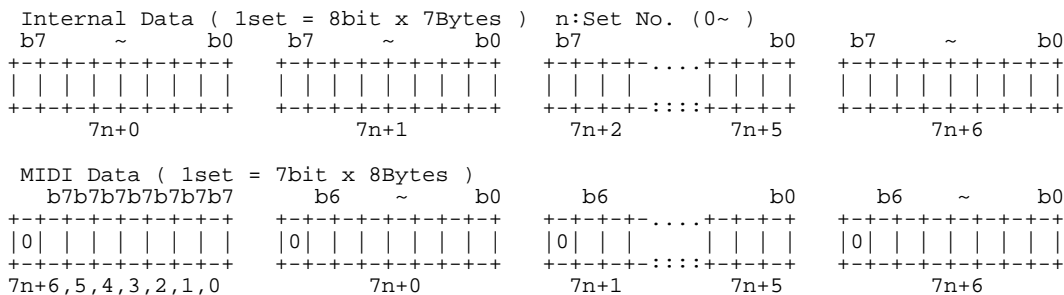
	6th Byte = ddH : Data	(Some messages doesn't have data)	
:	:		:
+	--- LastByte = F7H : End of Exclusive		---

When transmitting some EX Messages to SG series one after another, please wait for reply messages [DATA LOAD COMPLETED] or [WRITE COMPLETED] before sending a next message.

- (1) PROGRAM PARAMETER(Edit Buffer) DUMP REQUEST R
[F0,42,3g,4A,10,F7]
When received this message, transmits Func=40 or Func=24 message.
- (2) ALL PROGRAM PARAMETER DUMP REQUEST R
[F0,42,3g,4A,1C,00,F7]
When received this message, transmits Func=4C message.
- (3) PERFORMANCE PARAMETER(Edit Buffer) DUMP REQUEST R
[F0,42,3g,4A,19,F7]
When received this message, transmits Func=49 or Func=24 message.
- (4) ALL PERFORMANCE PARAMETER DUMP REQUEST R
[F0,42,3g,4A,1D,00,F7]
When received this message, transmits Func=4D message.
- (5) GLOBAL DATA DUMP REQUEST R
[F0,42,3g,4A,0E,00,F7]
When received this message, transmits Func=51 message.
- (6) MODE DATA DUMP REQUEST R
[F0,42,3g,4A,12,F7]
When received this message, transmits Func=42 message.
- (7) PROGRAM WRITE REQUEST R
[F0,42,3g,4A,11,00,pp,F7] pp:Dest Prog No. = 00~ 3F : A01~ D16
When received this message, writes the program to dest No. and transmits Func=21 message.
- (8) PERFORMANCE WRITE REQUEST R
[F0,42,3g,4A,1A,00,pp,F7] pp:Dest Perf No. = 00~ 3F : A01~ D16
When received this message, writes the performance to dest No. and transmits Func=21 message.
- (9) MODE CHANGE R
[F0,42,3g,4A,4E,0m,00,F7] m:Mode = 0:Performance
= 1:Perf Edit
= 2:Program
= 3:Prog Edit
= 8:Global
When received this message, changes a mode and transmits Func=21 message.
- (10) PROGRAM PARAMETER(Edit Buffer) DUMP R, T
[F0,42,3g,4A,40,dd.....,F7] dd : [Param No.00]...[Param No.49] See TABLE1
50Bytes = 7x7+1 -> 8x7+(1+1) = 58Bytes *1
When received this message & data, transmits Func=23 or Func=24 message.
When received Func=10 message, transmits this message & data.
- (11) ALL PROGRAM PARAMETER DUMP R, T
[F0,42,3g,4A,4C,00,dd.....,F7] dd : [Prog A01(50Bytes)]...[Prog D16(50Bytes)] See TABLE1
3200Bytes = 7x457+1 -> 8x457+(1+1) = 3658Bytes *1
When received this message & data, transmits Func=23 or Func=24 message.
When received Func=1C message, transmits this message & data.
When DATA DUMP was executed, transmits this message & data.
- (12) PERFORMANCE PARAMETER(Edit Buffer) DUMP R, T
[F0,42,3g,4A,49,dd.....,F7] dd : [Param No.00]...[Param No. 243] See TABLE3
244Bytes = 7x34+6 -> 8x34+(1+6) = 279Bytes *1
When received this message & data, transmits Func=23 or Func=24 message.
When received Func=19 message, transmits this message & data.
- (13) ALL PERFORMANCE PARAMETER DUMP R, T
[F0,42,3g,4A,4D,00,dd.....,F7] dd : [Perf A01(244Bytes)]...[Perf D16(244Bytes)] See TABLE3
15616Bytes = 7x2230+6 -> 8x2230+(1+6) = 17847Bytes *1
When received this message & data, transmits Func=23 or Func=24 message.
When received Func=1D message, transmits this message & data.
When DATA DUMP was executed, transmits this message & data.
- (14) GLOBAL DATA DUMP R, T
[F0,42,3g,4A,51,00,dd.....,F7] dd : [Param No.00]...[Param No.96] See TABLE2
97Bytes = 7x13+6 -> 8x13+(1+6) = 111Bytes *1
When received this message & data, transmits Func=23 or Func=24 message.
When received Func=0E message, transmits this message & data.
When DATA DUMP was executed, transmits this message & data.
- (15) MODE DATA T
[F0,42,3g,4A,42,0m,00,00,00,F7] m:Data =0:Performance
=1:Perf Edit
=2:Program
=3:Prog Edit
=8:Global
When received Func=12 message, transmits this message & data.

- (16) RECEIVED MESSAGE FORMAT ERROR T
 [F0,42,3g,4A,26,F7]
 When found a format error in the received message (ex.data length), transmits this message.
- (17) DATA LOAD COMPLETED (ACK) T
 [F0,42,3g,4A,23,F7]
 When DATA LOAD PROCESSING has been completed, transmits this message.
- (18) DATA LOAD ERROR (NAK) T
 [F0,42,3g,4A,24,F7]
 When DATA LOAD PROCESSING has not been completed (ex. protected), transmits this message.
- (19) WRITE COMPLETED T
 [F0,42,3g,4A,21,F7]
 When DATA WRITE has been completed, transmits this message.
- (20) WRITE ERROR T
 [F0,42,3g,4A,22,F7]
 When DATA WRITE has not been completed (ex. protected), transmits this message.

*1 : DUMP DATA CONVERT for (10)~ (14)'s data



[TABLE 1] PROGRAM PARAMETERS

No. : No. in the PROGRAM DUMP DATA.

No.	PARAMETER	DATA (Hex)	: VALUE
00 : 09	PROG NAME (Head) : PROG NAME (Tail)	20~ 7F	: ' '~ '<-' [ASCII Code]
10	ORIGINAL PROG NO.	00~ 3F	: (A01~ D16)
11	bit0 DAMP MODE	0, 1	: NORMAL, PIANO
	bit1 HIGH NOTES DAMP	0, 1	: NORMAL, PIANO
12	BRIGHTNESS	9D~ 63	: -99~ +99
13	LEVEL	9D~ 63	: -99~ +99
14	ATTACK TIME	9D~ 63	: -99~ +99
15	DECAY TIME	9D~ 63	: -99~ +99
16	RELEASE TIME	9D~ 63	: -99~ +99
17	VELOCITY	9D~ 63	: -99~ +99
18	SCALE TYPE	00~ 06	: *2
19	SCALE KEY	00~ 0B	: C~ B
20	PITCH BEND RANGE	F4~ 0C	: -12~ +12
21	EFFECT 1 TYPE	00~ 30	: *3
22	EFFECT 2 TYPE	00~ 2F	: *3
23	EFFECT 1L DEPTH	00~ 64	: DRY~ FX
24	EFFECT 1R DEPTH	00~ 64	: DRY~ FX
25	EFFECT 2L DEPTH	00~ 64	: DRY~ FX
26	EFFECT 2R DEPTH	00~ 64	: DRY~ FX
27	(Fixed)	41H	
28	(Fixed)	01H	
29	(Fixed)	0FH	

30 : 39	EFF 1 PARAM (0) : EFF 1 PARAM (9)		*7
40 : 49	EFF 2 PARAM (0) : EFF 2 PARAM (9)		*7

[TABLE 2] GLOBAL PARAMETERS

No. : No. in the GLOBAL DUMP DATA.

No.	PARAMETER	DATA(Hex)	: VALUE
00	MASTER TUNE	CE~ 32	: -50~ 50
01	KEY TRANSPOSE	F4~ 0C	: -12~ 12
02	bit0 PEDAL SW POL.	0,1	:(close),(open):on
	bit1 DAMPER SW POL.	0,1	:(close),(open):on
03	AFT TOUCH CURVE	0~ 7	: 1~ 8
04	VELOCITY FIGURE	00~ 03	: 1~ 4
05	VEL POINT (p)	01~ 7F	: 01~ 127
06	VEL POINT (f)	01~ 96	: 01~ 150
ASSIGNABLE PEDAL			
07	TYPE (LSB)	00~ 220	: *6
08	TYPE (MSB)		
09	b0-3 MODE	00~ 07	: *4
	b4-7 SW TYPE (MSB)	00~ 220	: *6
10	SW TYPE (LSB)		
11	SW VALUE (LSB)		*5
12	SW VALUE (MSB)		
13	LOW VALUE (LSB)		*5
14	LOW VALUE (MSB)		
15	HIGH VALUE (LSB)		*5
16	HIGH VALUE (MSB)		
ASSIGNABLE PEDAL SWITCH			
17 : 26	Same as ASSIGNABLE PEDAL (07~ 16)		
ASSIGNABLE SLIDER 1~ 4			
27 : 66	Same as ASSIGNABLE PEDAL (07~ 16)		X 4
ASSIGNABLE WHEEL 1, 2			
67 : 86	Same as ASSIGNABLE PEDAL (07~ 16)		X 2
87 : 96	SYS NAME (Head) : SYS NAME (Tail)	20~ 7F	: ' '~ '<-' [ASCII code]

*2 : 00 : Equal Temperament 04 : Werckmeister
01 : Pure Major 05 : Kirnberger
02 : Pure Minor 06 : Stretch
03 : Pythagoras

*3 : 00 : No Effect 20 : Stereo Phaser
01 : Reverb 22 : Rotary Speaker

0A : Early Reflection 23 : Auto Pan
 0D : Stereo Delay 25 : Wah
 13 : Stereo Chorus 27 : Flanger-Delay
 19 : Stereo Flanger 30 : Hyper Enhancer
 1F : Overdrive

*4 : 0 : One Shcit
 1 : Slider Value
 2 : Lock
 3 : Alternate
 4 : Momentary
 5 : Cnti+OneShot
 6 : Cnti+Alter
 7 : Cnti+Moment

*5 : See "Controller/MIDI"page's table's VALUE.

*6 : See "Controller/MIDI"page's table's TYPE.

= 00(0) : Off
 01(1) : Program Change
 :
 11(17) : P.Key Press C-1
 :
 91(145) : 00:Bank Select(MSB)
 :
 111(273): Bank Select
 :
 212(530): Data Entry
 :
 217(535): [Volume]
 :
 220(544): [LFO]

*7 : Effect Parameters (8Bytes) 12 Types

offset	PARAMETER	DATA(Hex)	: VALUE
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NUL must be 00

1:Reverb

(00)	Reverb Time	00~ 61	: 0.2~ 9.9
(01)	(NUL)	00	
(02)	High Damp	00~ 63	: 00~ 99
(03)	Pre Delay	00~ C8	: 00~ 200
(04)	E.R Level	00~ 63	: 00~ 99
(05)	(NUL)	00	
(06)	EQ High	F4~ 0C	: -12~ 12
(07)	EQ Low	F4~ 0C	: -12~ 12

2:Early Reflection

(00)	E.R Time	00~ 46	: 100~ 800
(01)	Pre Delay	00~ C8	: 00~ 200
(06)	EQ High	F4~ 0C	: -12~ 12
(07)	EQ Low	F4~ 0C	: -12~ 12

3:Stereo Delay

(00)	Delay Time L (L)	00~ 1F4	: 00~ 500
(01)	(H)		
(02)	Feed Back	9D~ 63	: -99~ 99
(03)	High Damp	00~ 63	: 00~ 99
(04)	Delay Time R (L)	00~ 1F4	: 00~ 500
(05)	(H)		
(06)	EQ High	F4~ 0C	: -12~ 12

(07)	EQ Low	F4~ 0C	: -12~ 12
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4 :Stereo Chorus

(00)	Mod Depth	00~ 63	: 00~ 99
(01)	Mod Speed	00~ D8	: *7-1
(02)	MG Shape	02,03	: Sin,Tri
(04)	Delay Time	00~ C8	: 00~ 200
(06)	EQ High	F4~ 0C	: -12~ 12
(07)	EQ Low	F4~ 0C	: -12~ 12

5:Stereo Flanger

(00)	Delay Time	00~ C8	: 00~ 20.0
(01)	Mod Depth	00~ 63	: 00~ 99
(02)	Mod Speed	01~ 63	: 01~ 99
(03)	Resonance	9D~ 63	: -99~ 99
(06)	EQ Low	F4~ 0C	: -12~ 12
(07)	EQ High	F4~ 0C	: -12~ 12

6:Over Drive

(00)	Drive (Edge)	01~ 6F	: 01~ 111
(01)	Hot Spot	00~ 63	: 00~ 99
(02)	Resonance	00~ 63	: 00~ 99
(03)	Out Level	00~ 63	: 00~ 99
(06)	EQ Low	F4~ 0C	: -12~ 12
(07)	EQ High	F4~ 0C	: -12~ 12

7:Stereo Phaser

(00)	Mod Depth	00~ 63	: 00~ 99
(01)	Mod Speed	00~ D8	: *7-1
(02)	MG Shape	02,03	: Sin,Tri
(03)	Feedback	9D~ 63	: -99~ 99
(04)	Manual	00~ 63	: 00~ 99

8:Rotary Speaker

(00)	Vibrato Depth	00~ 0F	: 00~ 15
(01)	Acceleration	01~ 0F	: 01~ 15
(02)	Slow Speed	01~ 63	: 01~ 99
(03)	Fast Speed	01~ 63	: 01~ 99
(08)	Dynamic Mod Source	00~ 0B	: *7-2

9:Auto Pan

(00)	Depth	00~ 63	: 00~ 99
(01)	Speed	00~ D8	: *7-1
(02)	MG Shape	02,03	: Sin,Tri
(03)	Shape	9D~ 63	: -99~ 99
(06)	EQ High	F4~ 0C	: -12~ 12
(07)	EQ Low	F4~ 0C	: -12~ 12

10:Wah

(00)	(Fixed)	0FH	
(01)	(Fixed)	06H	
(02)	Frequency	00~ 63	: 00~ 99
(03)	Peak Gain	00~ 0C	: 00~ 12
(04)	Peak Width	00~ 63	: 00~ 99
(05)	(Fixed)	0CH	
(06)	(Fixed)	06H	
(08)	Dynamic Mod Source	00~ 0B	: *7-2
(09)	Dynamic Mod Int	F1~ 0F	: -15~ 15

11 :Flanger-Delay

(00)	Delay Time(Flanger)	00~ 32	: 00~ 50
(01)	Mod Speed (Flanger)	01~ 63	: 01~ 99
(02)	Mod Depth (Flanger)	00~ 63	: 00~ 99
(03)	Feed back (Flanger)	9D~ 63	: -99~ 99
(04)	Delay Tlme (Delay)	00~ E1	: 00~ 450
(05)	Feed back (Delay)	9D~ 63	: -99~ 99
(06)	Delay Level(Delay)	00~ 63	: 00~ 99

12:Hyper Enhancer

(00)	Trim	00~ 64	: 00~ 100
(01)	Low Freq	01~ 46	: 01~ 70
(02)	Low Blend	00~ 64	: 00~ 100
(03)	High Freq	01~ 28	: 01~ 40
(04)	High Blend	00~ 64	: 00~ 100

*7-1 : Data(Hex) Value[Hz]
00~ 63 0.03~ 3.00 (0.03step)
64~ C7 3.1 ~ 13.0 (0.1 step)
C8~ D8 14 ~ 30.0 (1 step)

*7-2 : 00 : NONE
01 : A.WHEEL1
02 : A.WHEEL2
03 : A.SLIDER1
04 : A.SLIDER2
05 : A.SLIDER3
06 : A.SLIDER4
07 : A.PEDAL
08 : A.PEDAL SW
09 : DAMPER
0A : Amp EG
0B : Ctrl #12

[TABLE 3] PERFORMANCE PARAMETERS

No.	PARAMETER	DATA (Hex)	: VALUE
00 : 09	PERF NAME (Head) : PERF NAME (Tail)	20~ 7F	: ' '~ '<-' [ASCII code]
10	AFT TOUCH CURVE	0~ 7,8	: 1~ 8, GLOBAL
11	VELOCITY FIGURE	0~ 3,4	: 1~ 4, GLOBAL
12	VEL POlNT (p)	01~ 7F	: 01~ 127
13	VEL POINT (f)	01~ 96	: 01~ 150
14	TIMB-B FX ROUT	0,1~ FF	: USE,PASS
15	bit0 FILT Data Type	1,(0)	: New:Ver.8~ ,(Old)*8

b6-7	(Reserved)	0	
ASSIGNABLE PEDAL			
16	TYPE (LSB)	00~ 220	: *6
17	TYPE (MSB)		
18	b0-3	MODE	00~ 07 : *4
	b4-7	SW TYPE (MSB)	00~ 220 : *6
19	SW TYPE (LSB)		
20	SW VALUE (LSB)		*5
21	SW VALUE (MSB)		
22	LOW VALUE (LSB)		*5
23	LOW VALUE (MSB)		
24	HIGH VALUE (LSB)		*5
25	HIGH VALUE (MSB)		
ASSIGNABLE PEDAL SWITCH			
26 : 35	Same as ASSIGNABLE PEDAL (16~ 25)		
ASSIGNABLE SLIDER 1~ 4			
36 : 75	Same as ASSIGNABLE PEDAL (16~ 25) X 4		
ASSIGNABLE WHEEL 1,2			
76 : 95	Same as ASSIGNABLE PEDAL (16~ 25) X 2		
TIMBRE A PARAMETER			
96	b0-6	PROGRAM NO.	0~ 3F : A01~ D16
	bit7	SWITCH	0,1 : ON, OFF
97	OUTPUT LEVEL		00~ 7F : 00~ 127
98	TRANSPOSE		F4~ 0C : -12~ 12
99	TUNE		CE~ 32 : -50~ 50
100	L:R PANPOT		00~ 7F,80 : L~ R, PROG
*8 101	bit0	Damp/Sost FILT	0,1 : DIS,ENA
	bit1	Tone Chara FILT	0,1 : DIS,ENA
	bit2	Pitch Bend FILT	0,1 : DIS,ENA
	bit3	Mod Wheel FILT	0,1 : DIS,ENA
	bit4	Volume FILT	0,1 : DIS,ENA
	bit5	Expression FILT	0,1 : DIS,ENA
	bit6	After Touch FILT	0,1 : DIS,ENA
	bit7	Panpot FILT	0,1 : DIS,ENA
102	KEY ZONE TOP		00~ 7F : C-1~ G9
103	KEY ZONE BOTTOM		00~ 7F : C-1~ G9
104	VEL ZONE TOP		01~ 7F : 01~ 127
105	VEL ZONE BOTTOM		01~ 7F : 01~ 127
TIMBRE B PARAMETER			
106 : 115	Same as TIMBRE A (96~ 105)		
TIMBRE 1 PARAMETER			
116	MIDI CHANNEL		0~ 1F,20 : A1~ B16, OFF

117	PROGRAM NO.	0~ 7F,80	: 0~ 127,--
118	PROG BANK (LSB)	0~ 7F,80	: 0~ 127,--
119	PROG BANK (MSB)	0~ 7F,80	: 0~ 127,--
120	VOLUME	0~ 7F,80	: 0~ 127,--
121	TRANSPOSE	F4~ 0C	: -12~ 12
122	TUNE	CE~ 32,33	: -50~ 50,--
123	PANPOT	0~ 7F,80	: 0~ 127,--
124	RANDOM PANPOT	0~ 7F,80	: 0~ 127,--
125	bit0 A.SLIDER 1 FILT	0,1	: DIS, ENA
	bit1 A.SLIDER 2 FILT	0,1	: DIS, ENA
	bit2 A.SLIDER 3 FILT	0,1	: DIS, ENA
	bit3 A.SLIDER 4 FILT	0,1	: DIS, ENA
	bit7 AFT TOUCH FILTER	0,1	: DIS, ENA
126	bit0 A.WHEEL 1 FILT	0,1	: DIS, ENA
	bit1 A.WHEEL 2 FILT	0,1	: DIS, ENA
127	bit0 A.PEDAL FILT	0,1	: DIS, ENA
	bit1 A.PEDAL SW FILT	0,1	: DIS, ENA
	bit7 DAMPER FILTER	0,1	: DIS, ENA
128	KEY ZONE TOP	00~ 7F	: C-1~ G9
129	KEY ZONE BOTTOM	00~ 7F	: C-1~ G9
130	VEL ZONE TOP	01~ 7F	: 01~ 127
131	VEL ZONE BOTTOM	01~ 7F	: 01~ 127
TIMBRE 2~ 8 PARAMETERS			
132 : 243	Same as TIMBRE 1 (116~ 131)		X 7

*8 : When FILT Data Type was "0", converts Old Data Type to New Data Type.
(Old Data means System Version:1.0 ~ 7.0.)

Old FILT Data Type (FILT Data Type:0)

101	bit0 DAMPER/SOST FILT	0,1	: DIS,ENA
	bit1 CONTROLLER FILT	0,1	: DIS,ENA

When FILT Data Type was "0", each filters setting are converted automatically as below.

Old Data Type	New Data Type
FILT Data Type:"0" -> FILT Data Type:"1"	
bit0 (DAMPER/SOST) -> bit0 (Damp/Sost)	
bit1 (CONTROLLER) -> bit1 (Tone Chara)	
	-> bit2 (Pitch Bend)
	-> bit3 (Mod Wheel)
	-> bit4 (Volume)
	-> bit5 (Expression)
	-> bit6 (After Touch)
	-> bit7 (Panpot)